

Fig. 1

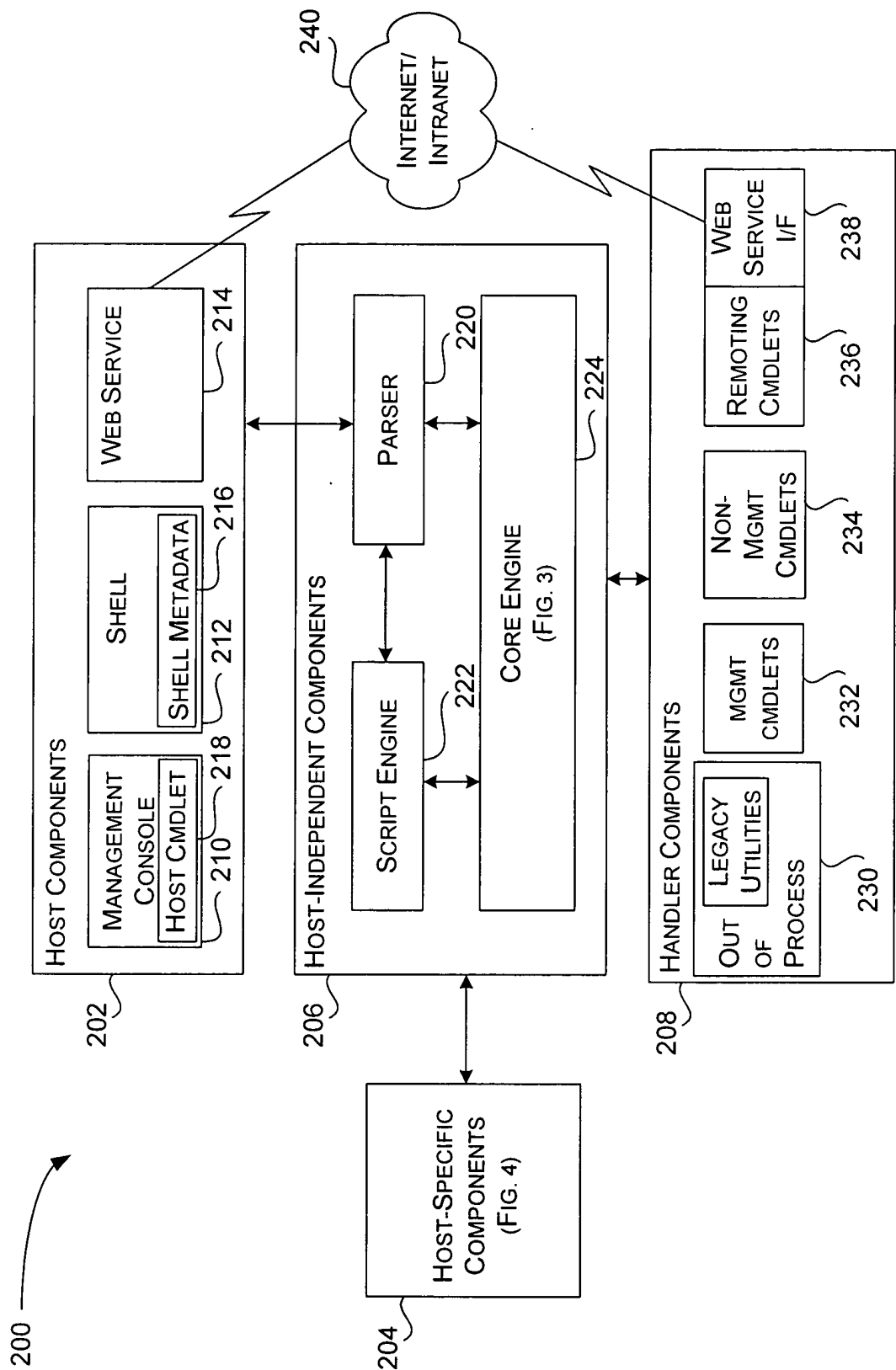


Fig. 2

Title: Mechanism for Obtaining and Applying Constraints to Constructs
within an Interactive Environment

Inventor:s: Snover et al.

Docket No: MS1-1740US

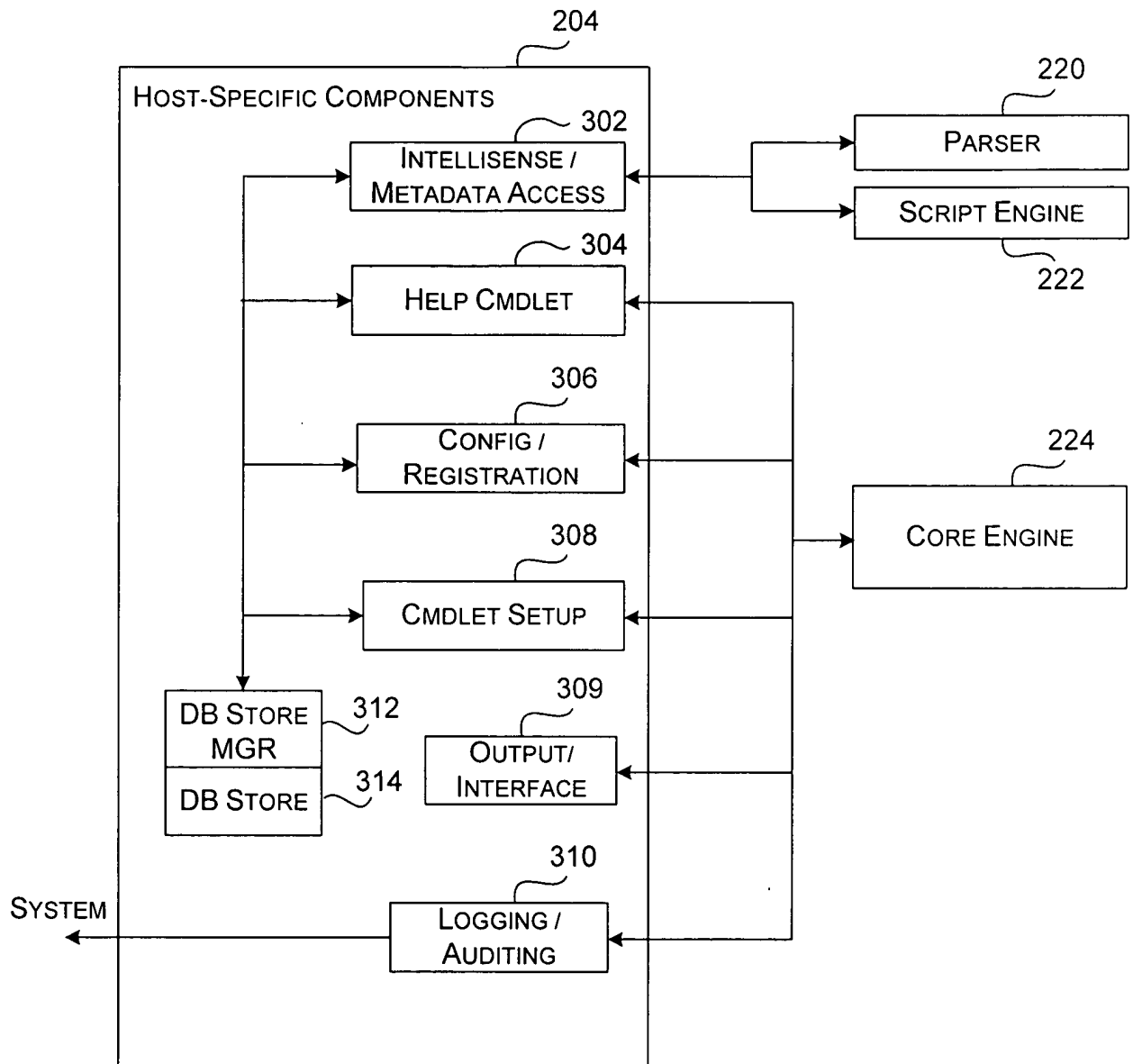


Fig. 3

**Title: Mechanism for Obtaining and Applying Constraints to Constructs
within an Interactive Environment**

Inventor:s: Snover et al.

Docket No: MS1-1740US

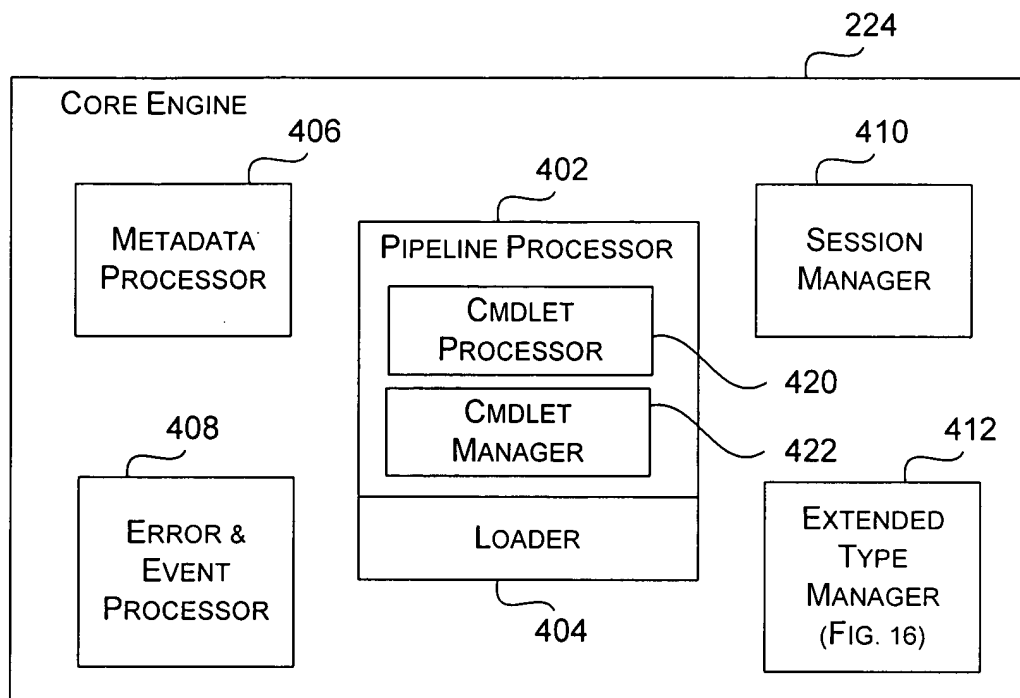


Fig. 4

Title: Mechanism for Obtaining and Applying Constraints to Constructs
within an Interactive Environment

Inventor:s: Snover et al.

Docket No: MS1-1740US

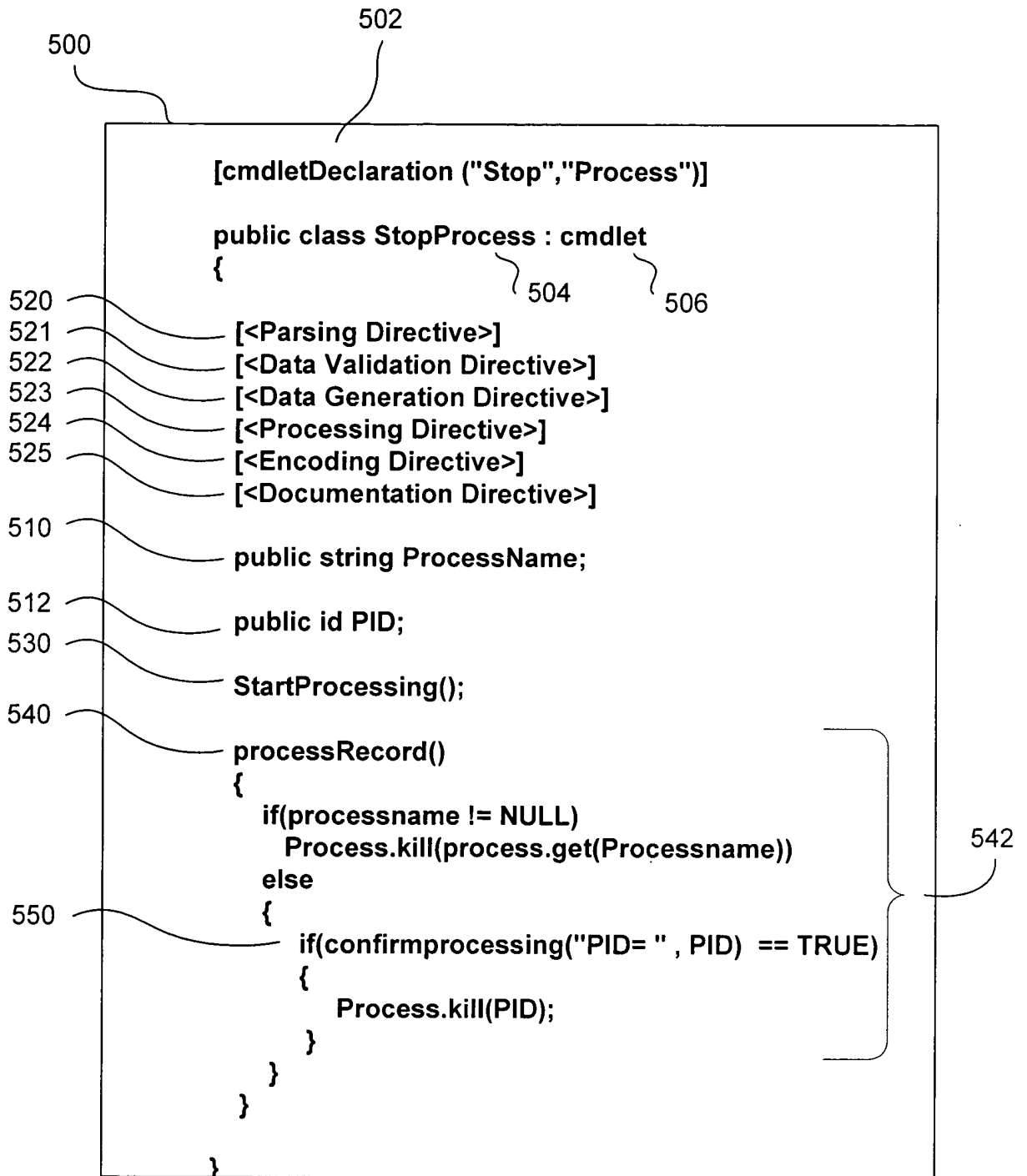


Fig. 5

Title: Mechanism for Obtaining and Applying Constraints to Constructs
within an Interactive Environment

Inventor:s: Snover et al.

Docket No: MS1-1740US

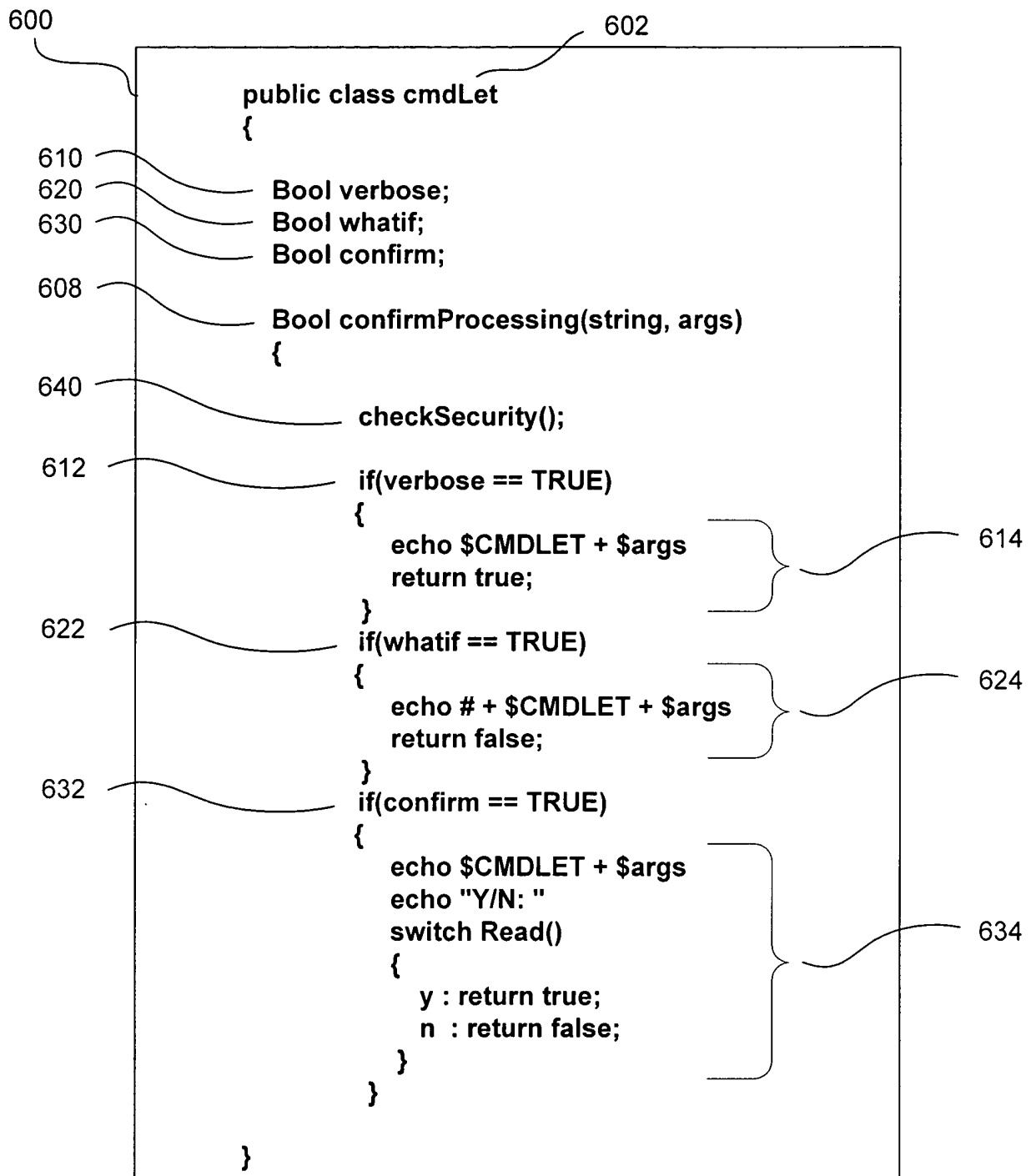


Fig. 6

Title: Mechanism for Obtaining and Applying Constraints to Constructs
within an Interactive Environment

Inventor:s: Snover et al.

Docket No: MS1-1740US

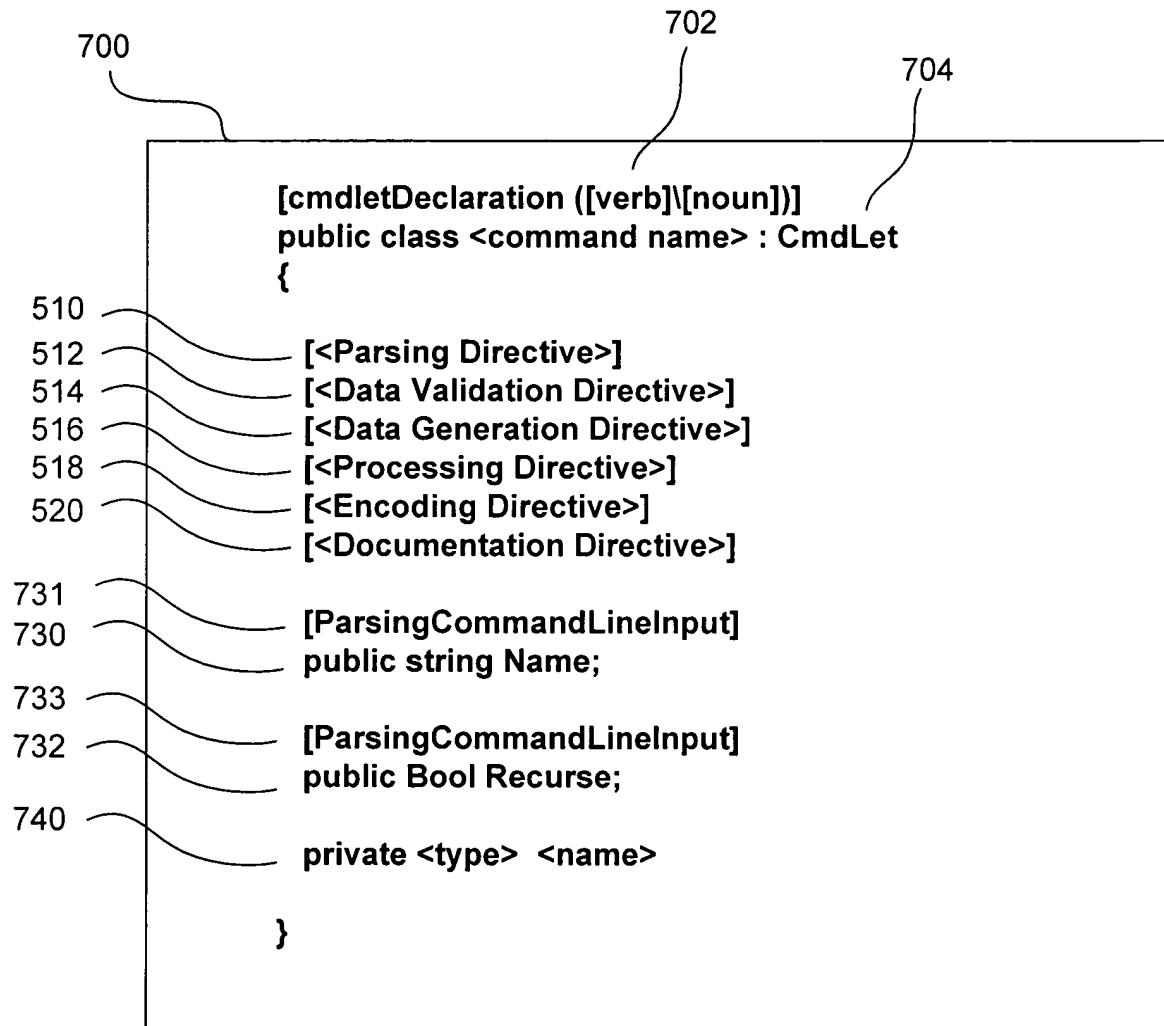


Fig. 7

Title: Mechanism for Obtaining and Applying Constraints to Constructs
within an Interactive Environment

Inventor:s: Snover et al.

Docket No: MS1-1740US

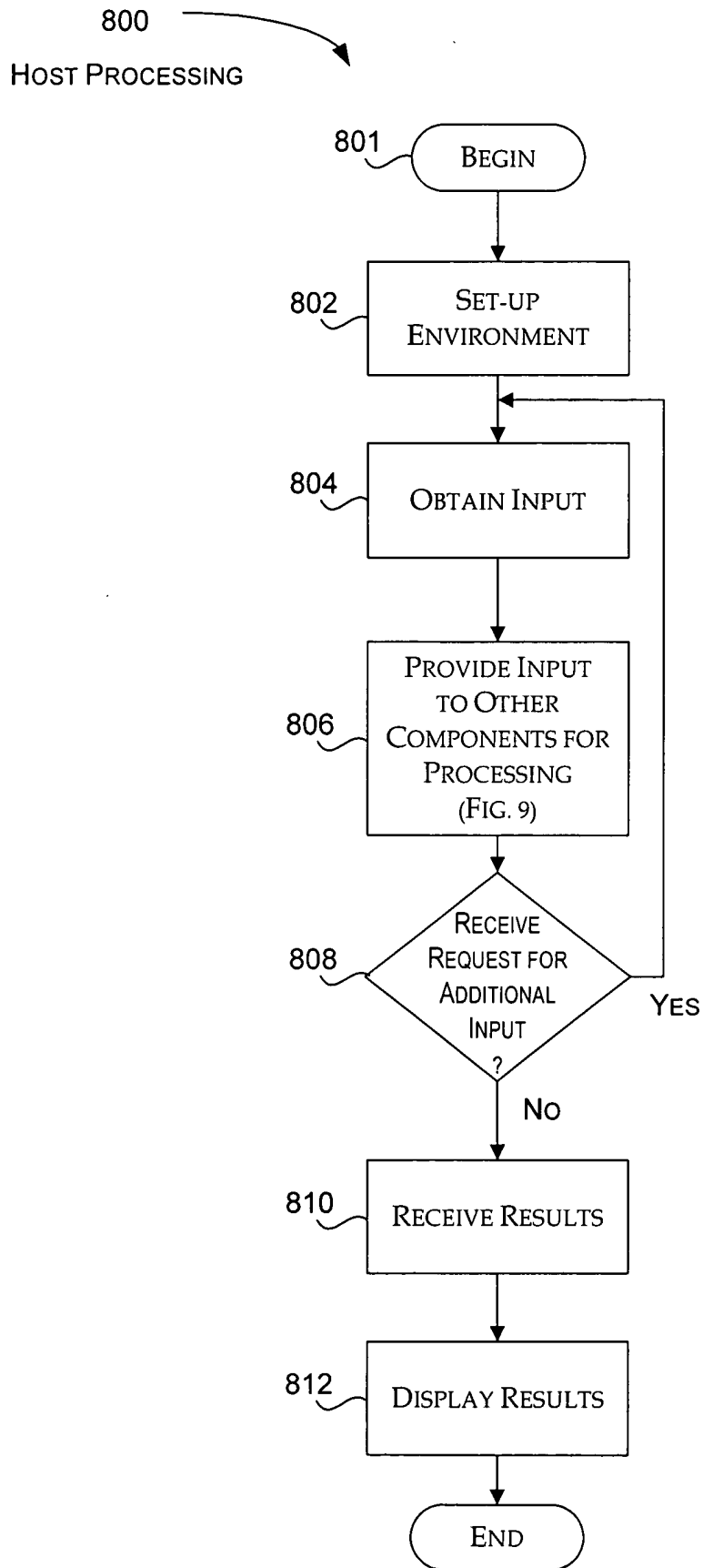


Fig. 8

Title: Mechanism for Obtaining and Applying Constraints to Constructs
within an Interactive Environment

Inventor:s: Snover et al.

Docket No: MS1-1740US

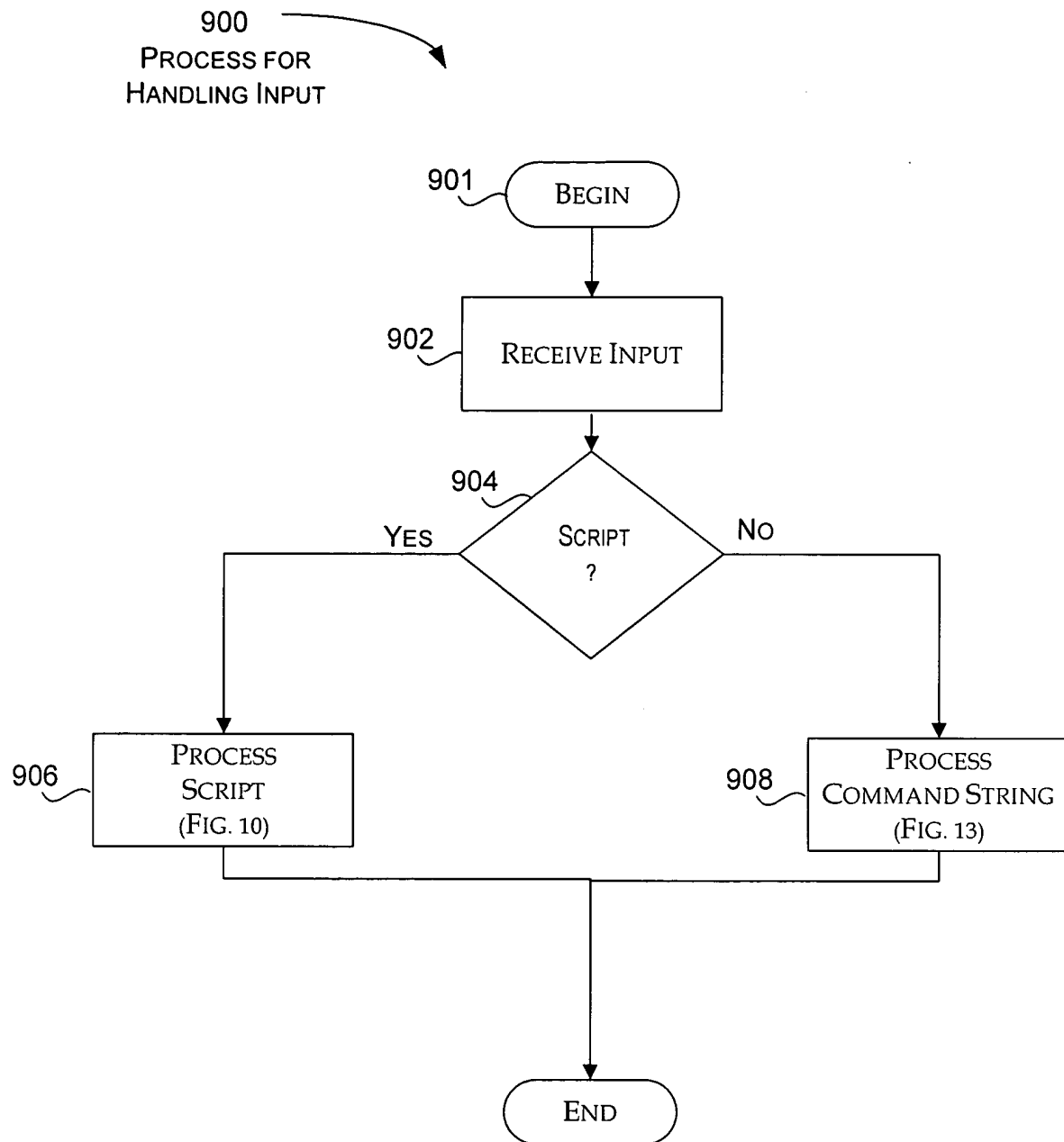
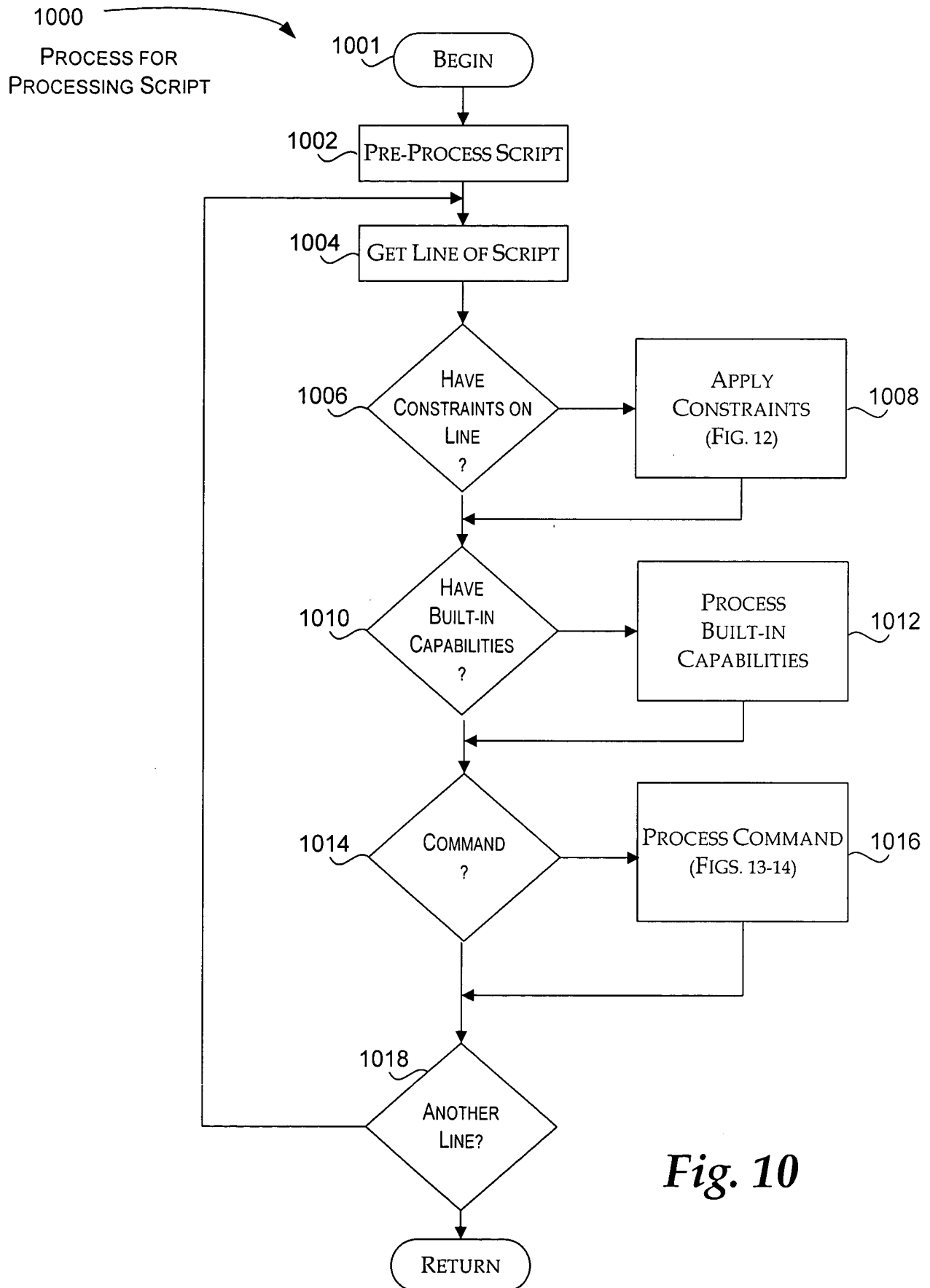


Fig. 9

Title: Mechanism for Obtaining and Applying Constraints to Constructs
within an Interactive Environment

Inventor:s: Snover et al.

Docket No: MS1-1740US



Title: Mechanism for Obtaining and Applying Constraints to Constructs within an Interactive Environment

Inventor:s: Snover et al.

Docket No: MS1-1740US

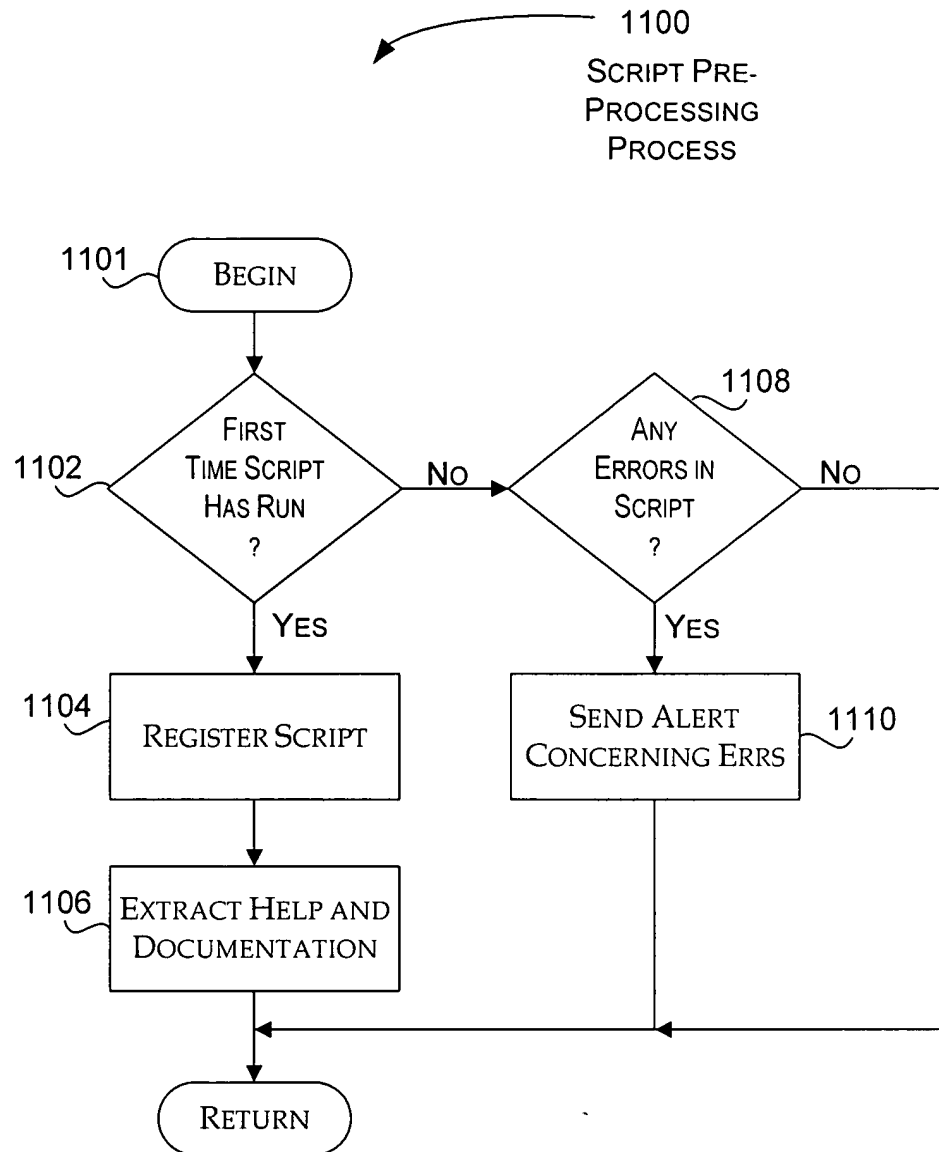


Fig. 11

Title: Mechanism for Obtaining and Applying Constraints to Constructs
within an Interactive Environment

Inventor:s: Snover et al.

Docket No: MS1-1740US

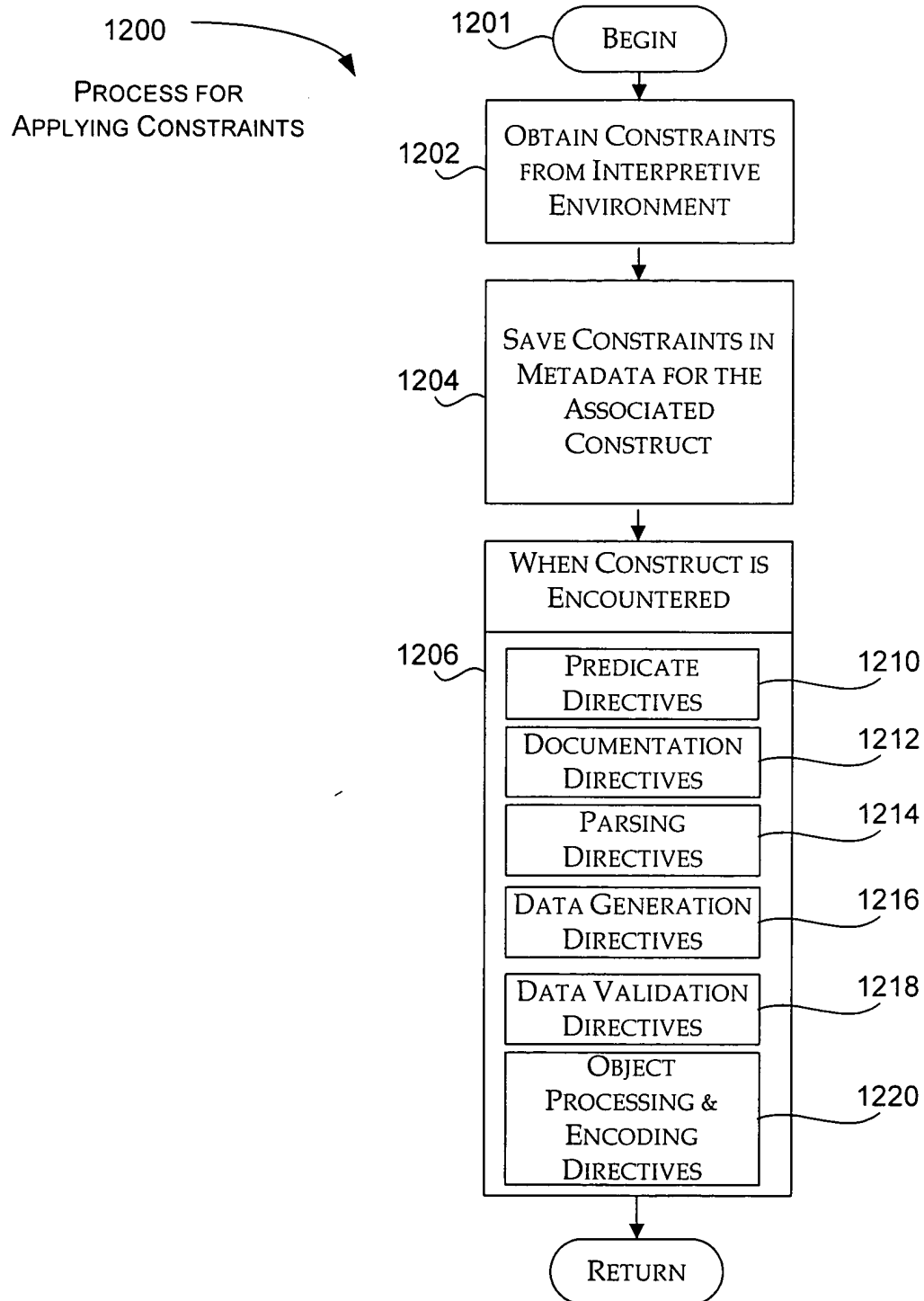


Fig. 12

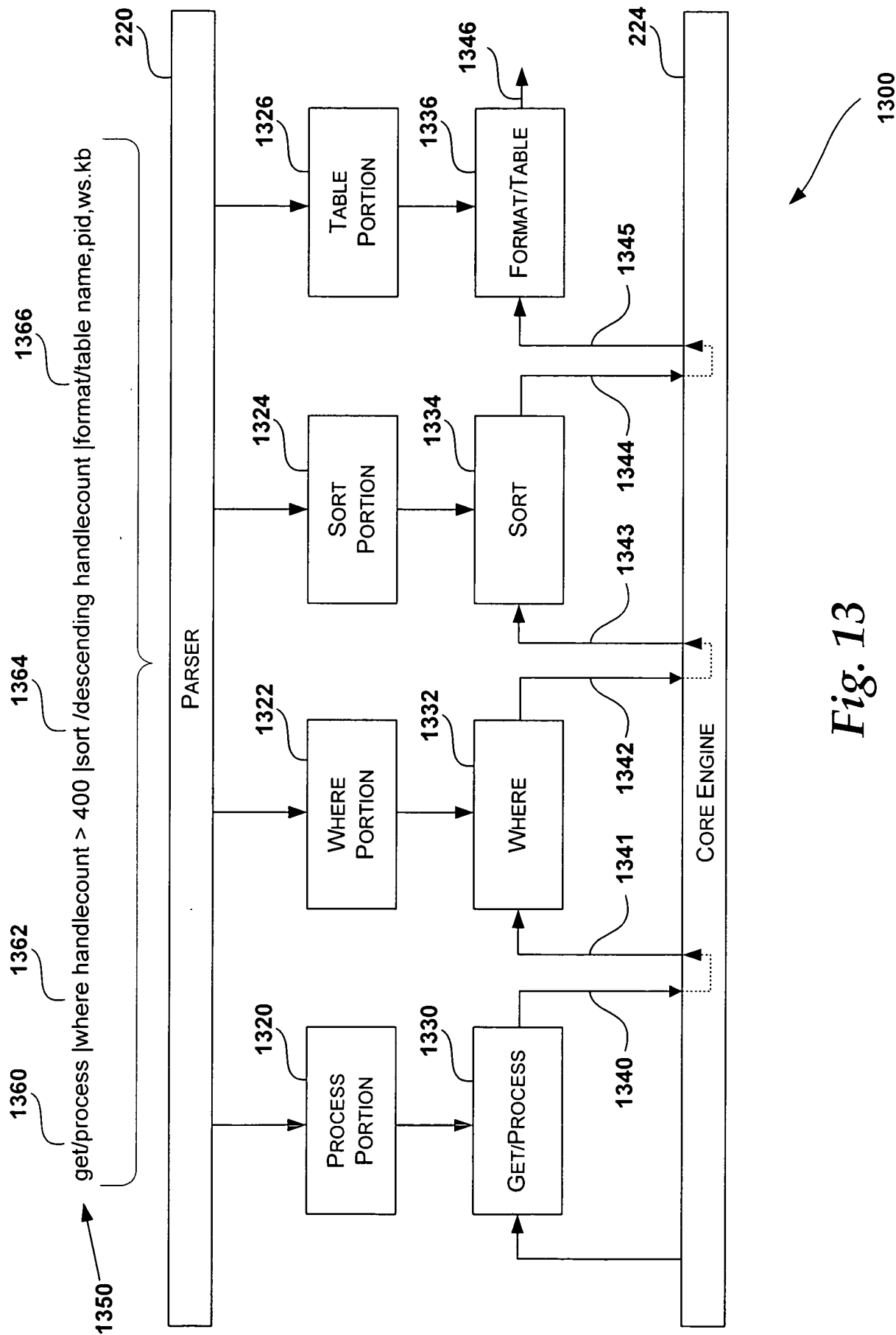


Fig. 13

Title: Mechanism for Obtaining and Applying Constraints to Constructs
within an Interactive Environment

Inventor:s: Snover et al.

Docket No: MS1-1740US

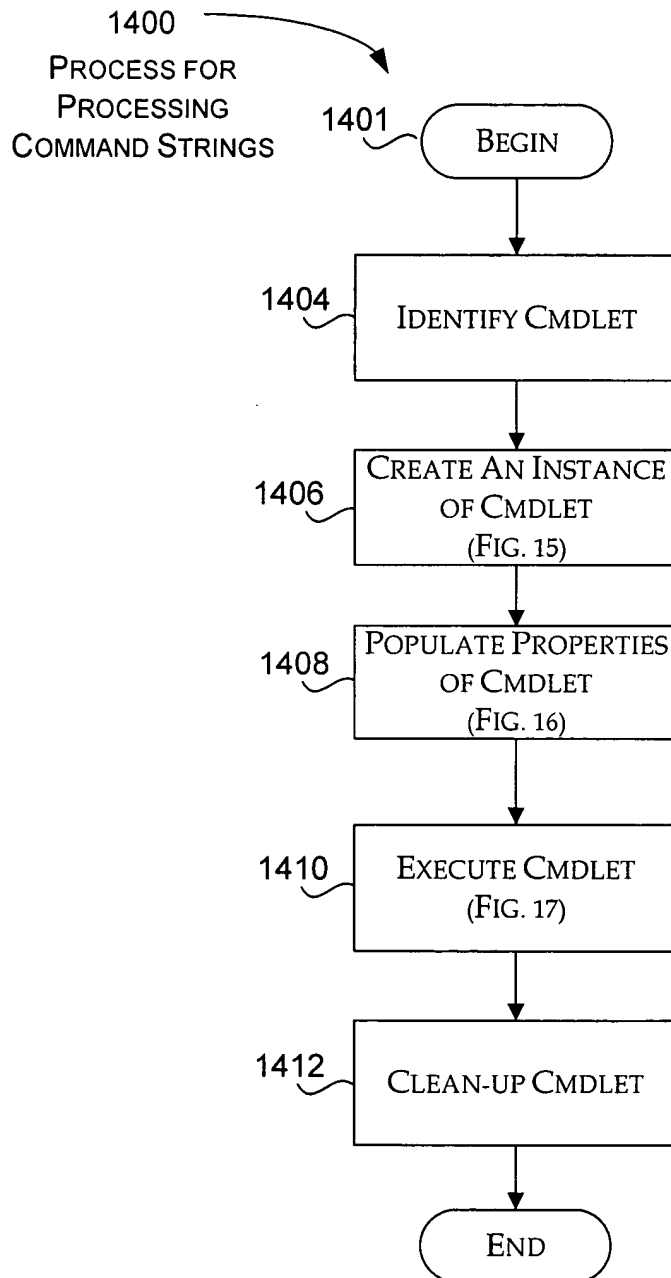


Fig. 14

Title: Mechanism for Obtaining and Applying Constraints to Constructs
within an Interactive Environment

Inventor:s: Snover et al.

Docket No: MS1-1740US

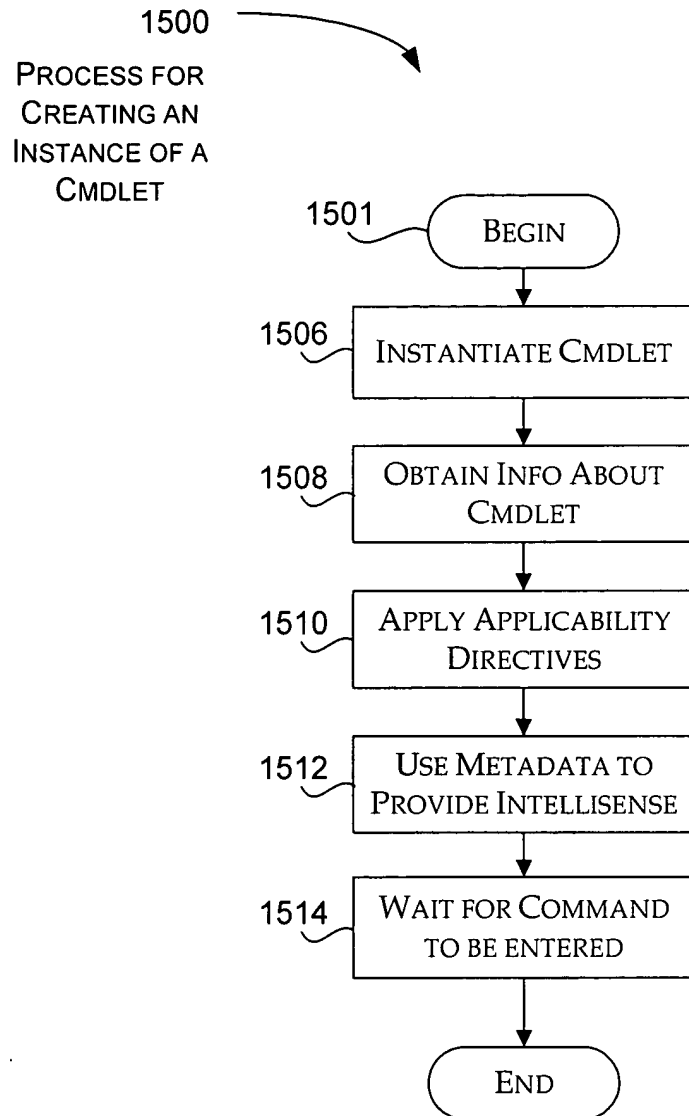


Fig. 15

Title: Mechanism for Obtaining and Applying Constraints to Constructs
within an Interactive Environment

Inventor:s: Snover et al.

Docket No: MS1-1740US

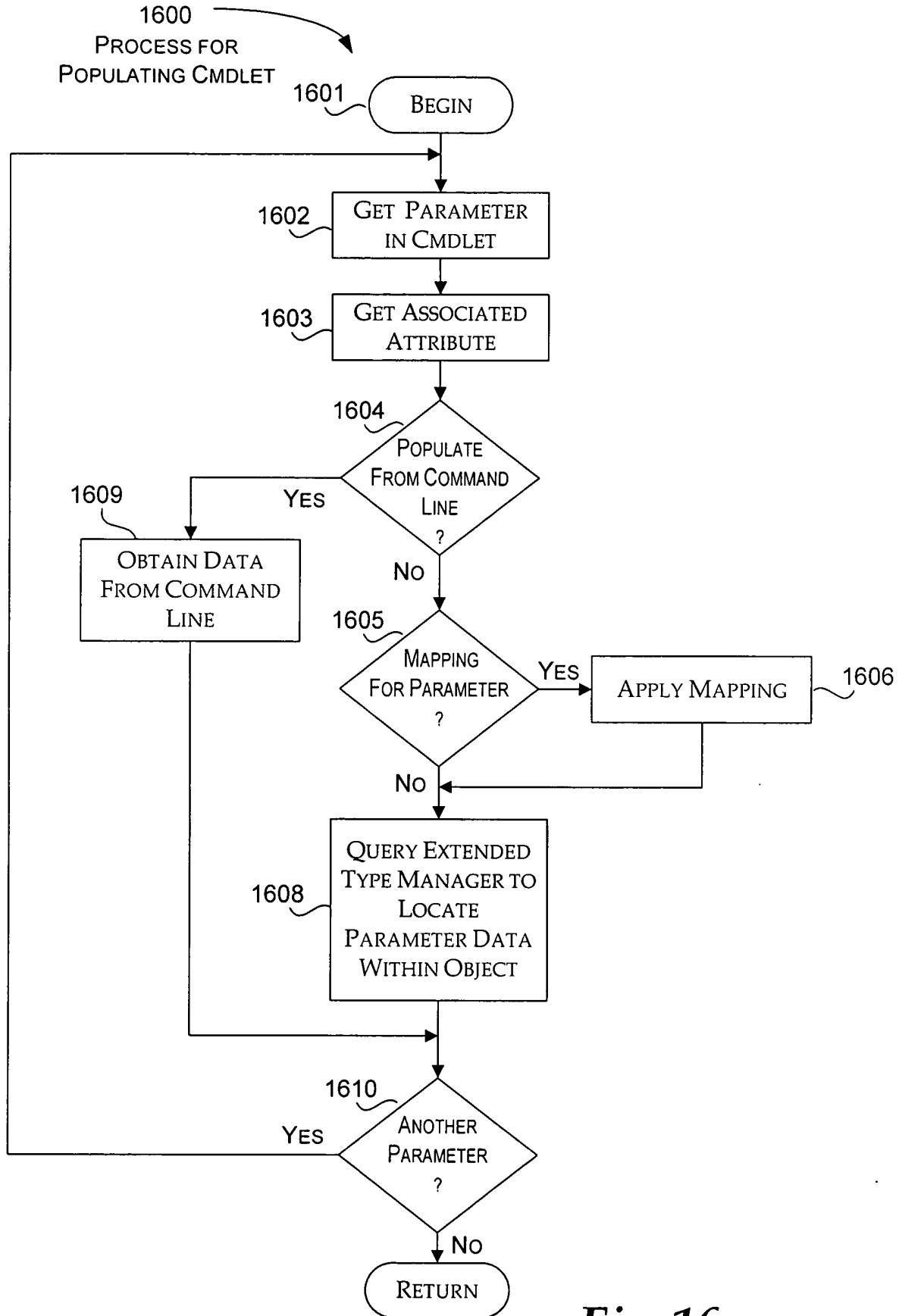


Fig. 16

Title: Mechanism for Obtaining and Applying Constraints to Constructs
within an Interactive Environment

Inventors: Snover et al.

Docket No: MS1-1740US

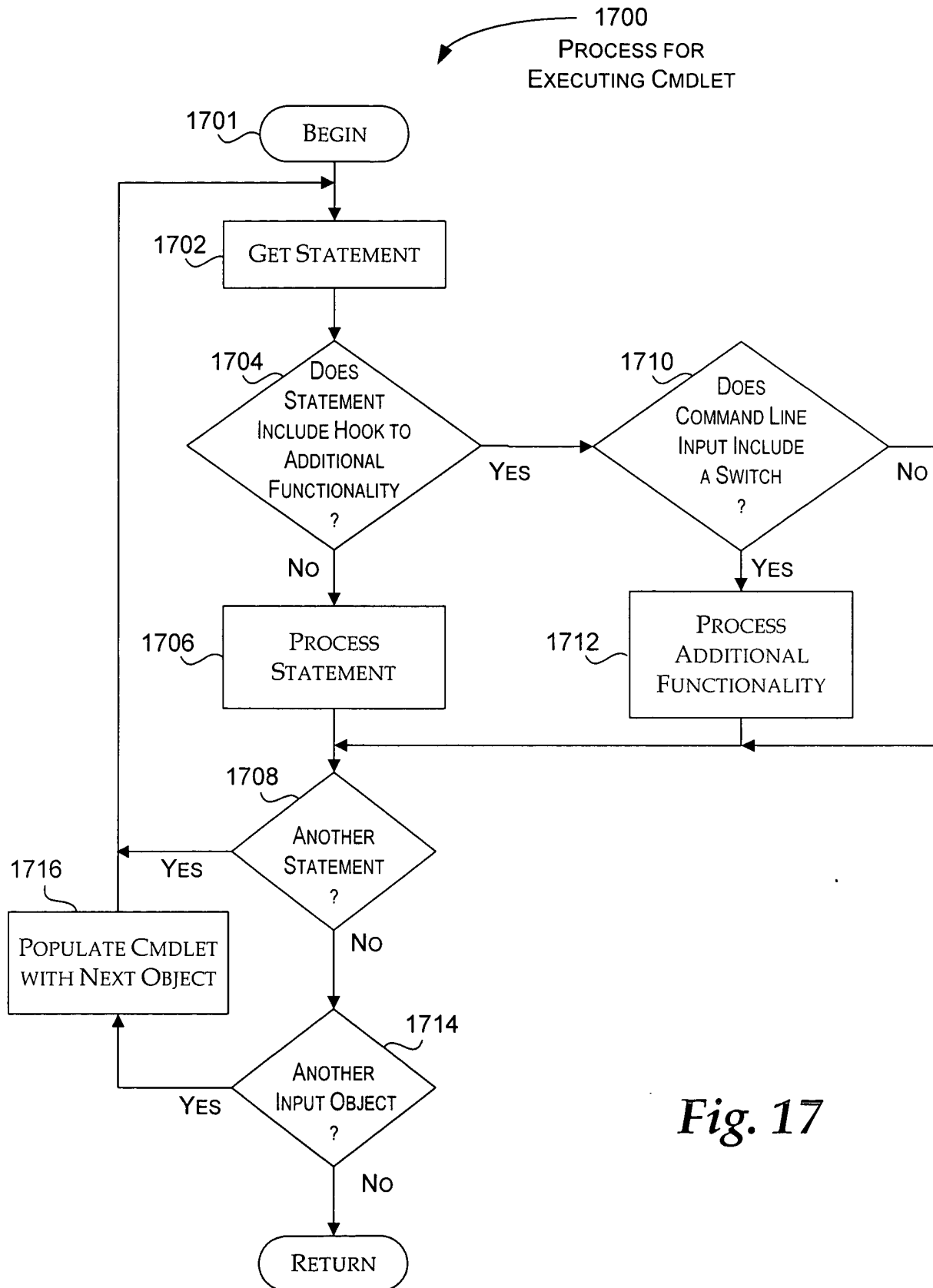
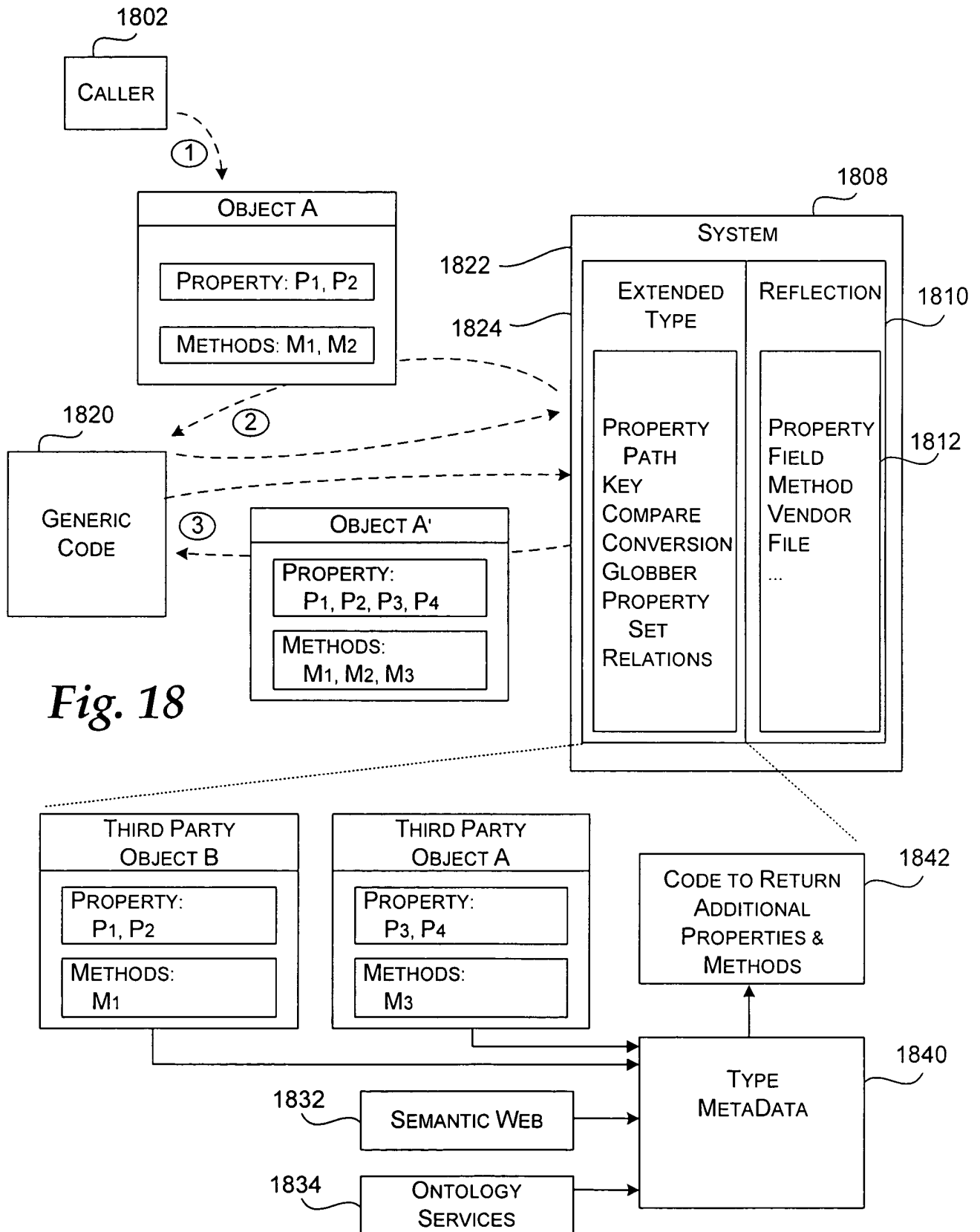


Fig. 17

Title: Mechanism for Obtaining and Applying Constraints to Constructs
within an Interactive Environment

Inventor:s: Snover et al.

Docket No: MS1-1740US



Title: Mechanism for Obtaining and Applying Constraints to Constructs
within an Interactive Environment

Inventor:s: Snover et al.

Docket No: MS1-1740US

PIPELINING SEQUENCES FOR DATA DRIVEN OUTPUT

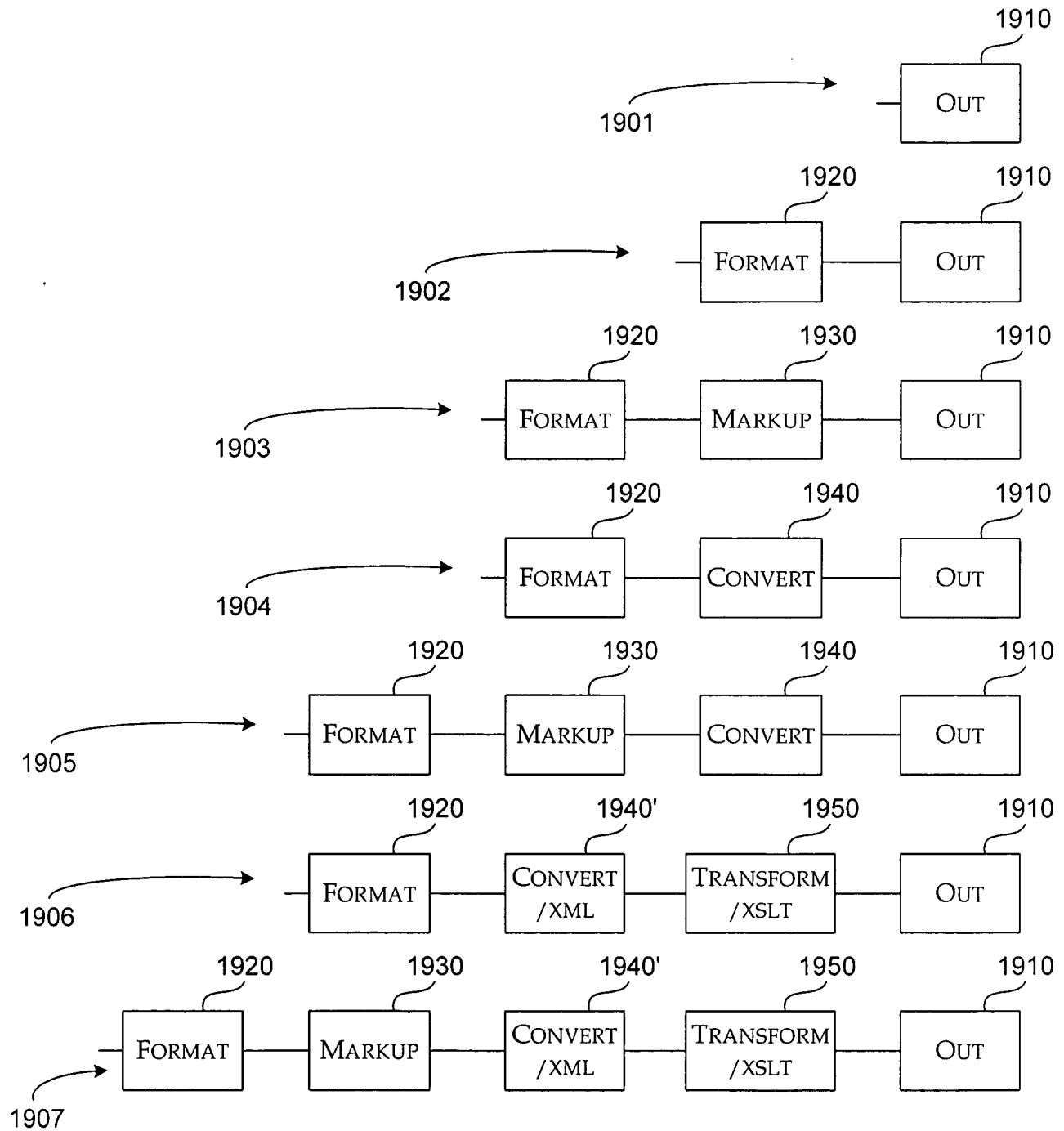


Fig. 19

Title: Mechanism for Obtaining and Applying Constraints to Constructs
within an Interactive Environment

Inventor:s: Snover et al.

Docket No: MS1-1740US

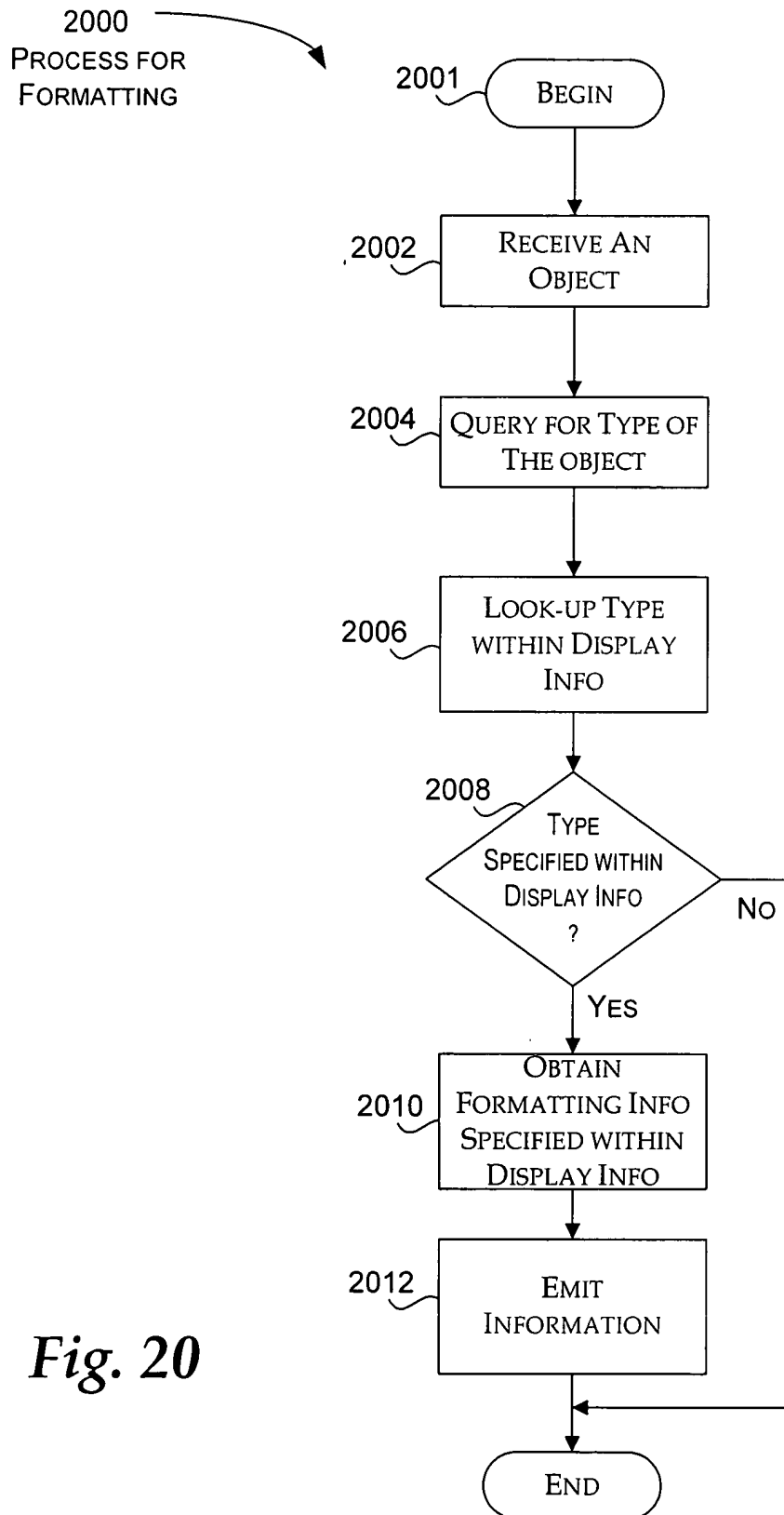



Fig. 20

Title: Mechanism for Obtaining and Applying Constraints to Constructs
within an Interactive Environment

Inventor:s: Snover et al.

Docket No: MS1-1740US

2100
EXEMPLARY DISPLAY
INFORMATION



```
<DISPLAYINFO>
  <TYPE> DIRECTORYINFO </TYPE>
  <SHAPE> TABLE </SHAPE>
  <COLUMNS>
    <COLUMN>
      <PROPERTYNAME> LASTWRITE TIME </PROPERTYNAME>
    </COLUMN>
    <COLUMN>
      <PROPERTYNAME> SIZE </PROPERTYNAME>
      <ALIGN> LEFT </ALIGN>
      <WIDTH> 10 </WIDTH>
      <FORMATSTRING> D </FORMATSTRING>
      <LABEL> SIZE </LABEL>
    </COLUMN>
  </COLUMNS>
  <HEADER>
    ...
  </HEADER>
  <GROUPBY> PARENTPATH </GROUPBY>
  ...
</DISPLAYINFO>
```

Fig. 21

Title: Mechanism for Obtaining and Applying Constraints to Constructs
within an Interactive Environment

Inventor:s: Snover et al.

Docket No: MS1-1740US

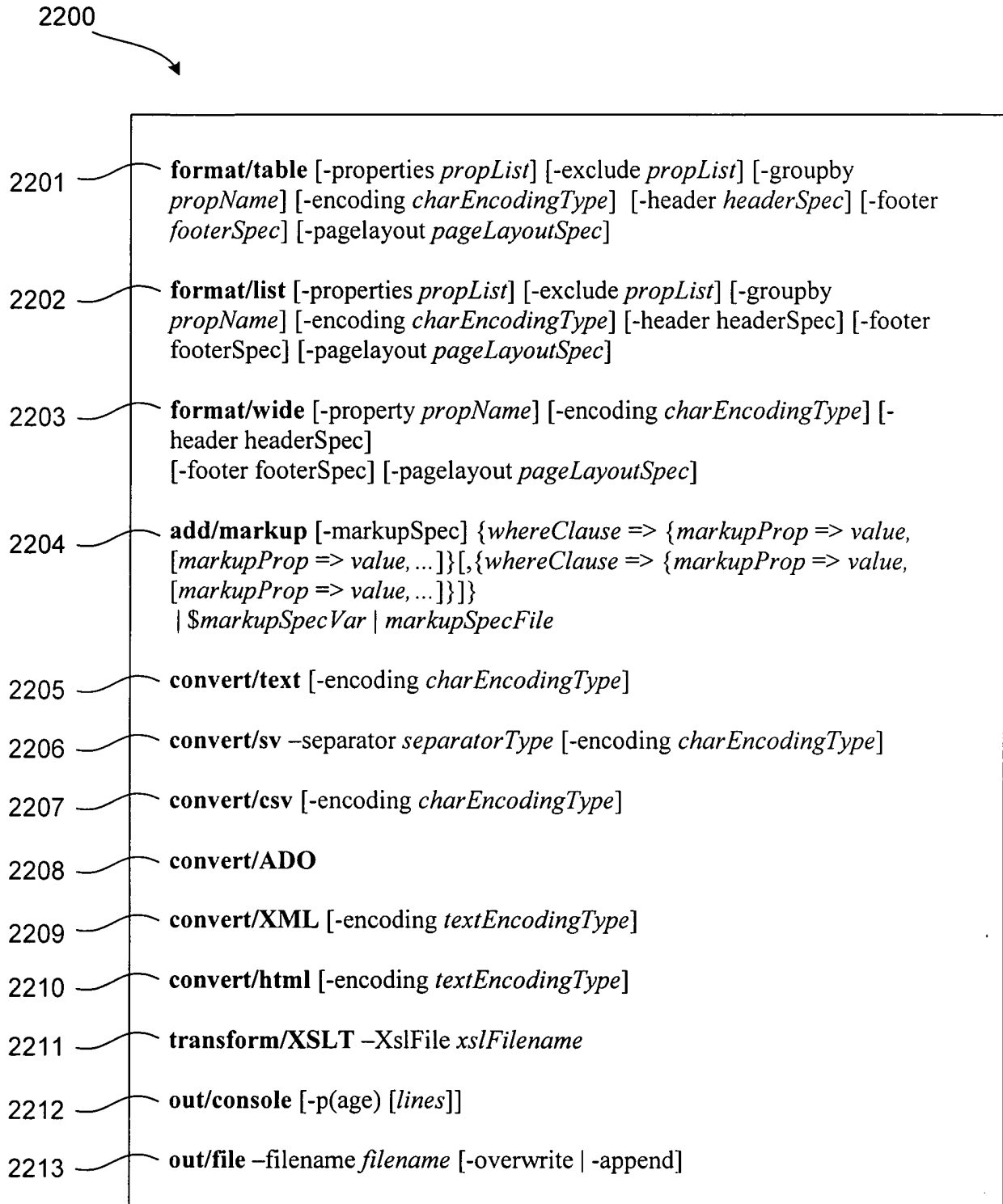


Fig. 22

Title: Mechanism for Obtaining and Applying Constraints to Constructs
within an Interactive Environment

Inventor(s): Snover et al.

Docket No: MS1-1740US

2300

```
[1]$ dir | format/table | out/console
```

| Written | Length.kb | Name |
|-----------------------|-----------|-----------|
| 6/28/2002 12:52:10 PM | 189 | sd.exe |
| 11/7/2002 10:59:18 AM | 0 | sd.ini |
| 6/28/2002 12:52:10 PM | 2,633 | sd.pdb |
| 6/28/2002 12:52:18 PM | 223 | sdscc.dll |

```
[2]$ dir | format/list brief.set | convert/text | out/console
```

Written : 6/28/2002 12:52:10 PM
Length.kb : 189
Name : sd.exe

Written : 11/7/2002 10:59:18 AM
Length.kb : 0
Name : sd.ini

Written : 6/28/2002 12:52:10 PM
Length.kb : 2633
Name : sd.pdb

```
[27]$ %mymarkupspec = {where length.kb -gt 500 => {applyto => all,  
font.name => arial, font.style => bold, font.color => blue}
```

```
[28]$ dir i* | format/table | markup %mymarkupspec | out/console
```

| Written | Length.kb | Name |
|----------------------|-----------|-----------------------------------|
| 9/11/2002 3:11:10 PM | 1,020 | Interop.Excel.dll |
| 9/11/2002 3:11:10 PM | 192 | Interop.Microsoft.Office.Core.dll |
| 9/11/2002 3:11:10 PM | 120 | Interop.SHDocVw.dll |
| 9/11/2002 3:11:09 PM | 12 | Interop.TASKSCHEDULERLib.dll |
| 9/11/2002 3:11:10 PM | 56 | Interop.VBIDE.dll |

```
[1]$ dir | format/table | convert/csv | out/console
```

```
"Written","Length.kb","Name"  
"6/28/2002 12:52:10 PM","189","sd.exe"  
"11/7/2002 10:59:18 AM","0","sd.ini"  
"6/28/2002 12:52:10 PM","2633","sd.pdb"  
"6/28/2002 12:52:18 PM","223","sdscc.dll"
```

Fig. 23